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Sequence Listing could not be accepted due to errors.
See attached Validation Report.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Durreshwar Anjum
Timestamp: Tue Sep 25 11:31:40 EDT 2007
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Reviewer Comments:
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"R"R 8R8R8R S S SKi MiMiMiMiMiMi$0kh ?m~qi V% S S   S S Sqi$8R8Ri ?T?T?T S|8RV%
SKi?T?T? ?c  4%"V% e8R R  ? ?Q?S?"qg ?i0n Tj nD e  nV%!eP ?T S S Sqiqi?T  S S
S³³³?Q³³³?Qj%D?%, $$$?   SEQUENCE LISTING



Rejected, because this Non-Ascii characters appears the above headings
from <110> to <160> are missing.

missing <210> numeric identifier because of  Non-Ascii character( ?   <210>
 1)


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please delete this end of file text which shows below the seq Id 8.

* *

Application No: 10578501   Version No: 1.0

Input Set:

Output Set:

Started:	2007-09-12 13:26:39.613
Finished:	2007-09-12 13:26:46.378
Elapsed:	0 hr(s) 0 min(s) 6 sec(s) 765 ms
Total Warnings:	933
Total Errors:	269
No. of SeqIDs Defined:	8
Actual SeqID Count:	8

Error code		Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (2)
W	213	Artificial or Unknown found in <213> in SEQ ID (3)
W	213	Artificial or Unknown found in <213> in SEQ ID (4)
W	213	Artificial or Unknown found in <213> in SEQ ID (5)
W	213	Artificial or Unknown found in <213> in SEQ ID (6)
E	254	The total number of bases conflicts with running total Input: 0, Calculated : 250 SEQID(8)
E	355	Empty lines found between the amino acid numbering and the
E	321	No. of Bases conflict, this line has no nucleotides SEQID (8)
W	112	Upper case found in data; Found at position(1046) SeqId(8)
E	259	Found undefined lettercode; POS (1050) SEQID(8)
E	259	Found undefined lettercode; POS (1051) SEQID(8)
W	112	Upper case found in data; Found at position(1051) SeqId(8)
W	112	Upper case found in data; Found at position(1052) SeqId(8)
W	112	Upper case found in data; Found at position(1053) SeqId(8)
W	112	Upper case found in data; Found at position(1054) SeqId(8)
E	259	Found undefined lettercode; POS (1056) SEQID(8)
E	259	Found undefined lettercode; POS (1057) SEQID(8)
E	259	Found undefined lettercode; POS (1058) SEQID(8)
E	259	Found undefined lettercode; POS (1059) SEQID(8)

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            Input Set:


           Output Set:



            Started:   2007-09-12 13:26:39.613
           Finished:   2007-09-12 13:26:46.378
            Elapsed:   0 hr(s) 0 min(s) 6 sec(s) 765 ms
     Total Warnings:   933
       Total Errors:   269
 No. of SeqIDs Defined:   8
   Actual SeqID Count:   8
```

Error code	Error Description
E 259	Found undefined lettercode; POS (1060) SEQID(8)
E 254	The total number of bases conflicts with running total, Input: 4, Calculated : 1060 SEQID(8)
W 112	Upper case found in data; Found at position(1118) SEQID(8)
W 112	Upper case found in data; Found at position(1121) SEQID(8)
W 112	Upper case found in data; Found at position(1124) SEQID(8)
W 112	Upper case found in data; Found at position(1127) SEQID(8)
W 112	Upper case found in data; Found at position(1130) SEQID(8)
W 112	Upper case found in data; Found at position(1133) SEQID(8)
W 112	Upper case found in data; Found at position(1136) SEQID(8)
W 112	Upper case found in data; Found at position(1139) SEQID(8)
W 112	Upper case found in data; Found at position(1142) SEQID(8)
W 112	Upper case found in data; Found at position(1145) SEQID(8)
W 112	Upper case found in data; Found at position(1148) SEQID(8)
W 112	Upper case found in data; Found at position(1151) SEQID(8)
W 112	Upper case found in data; Found at position(1268) SEQID(8)
W 112	Upper case found in data; Found at position(1269) SEQID(8)
W 112	Upper case found in data; Found at position(1272) SEQID(8) This error has occured more than 20 times, will not be displayed
E 342	'n' position not defined found at POS: 1296 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 1574 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 1575 SEQID(8)

Input Set:

Output Set:

Started:	2007-09-12 13:26:39.613
Finished:	2007-09-12 13:26:46.378
Elapsed:	0 hr(s) 0 min(s) 6 sec(s) 765 ms
Total Warnings:	933
Total Errors:	269
No. of SeqIDs Defined:	8
Actual SeqID Count:	8

Error code	Error Description
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 1576 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 1577 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 1578 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 1599 SEQID(8)
E 342	'n' position not defined found at POS: 2849 SEQID(8)
E 342	'n' position not defined found at POS: 2923 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 2950 SEQID(8)
E 342	'n' position not defined found at POS: 2996 SEQID(8)
E 342	'n' position not defined found at POS: 3069 SEQID(8)
E 342	'n' position not defined found at POS: 3128 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 3144 SEQID(8)
E 342	'n' position not defined found at POS: 3186 SEQID(8)
E 342	'n' position not defined found at POS: 3246 SEQID(8)
E 342	'n' position not defined found at POS: 3298 SEQID(8)
E 342	'n' position not defined found at POS: 3353 SEQID(8)
E 342	'n' position not defined found at POS: 3441 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 3500 SEQID(8)
E 342	'n' position not defined found at POS: 3745 SEQID(8)
E 342	'n' position not defined found at POS: 3751 SEQID(8)

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            Input Set:


            Output Set:



           Started:   2007-09-12 13:26:39.613
          Finished:   2007-09-12 13:26:46.378
           Elapsed:   0 hr(s) 0 min(s) 6 sec(s) 765 ms
    Total Warnings:   933
      Total Errors:   269
No. of SeqIDs Defined:   8
 Actual SeqID Count:   8
```

Error code	Error Description
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 3756 SEQID(8)
E 342	'n' position not defined found at POS: 3940 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 4009 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 4053 SEQID(8)
E 342	'n' position not defined found at POS: 4170 SEQID(8)
E 342	'n' position not defined found at POS: 4220 SEQID(8)
E 342	'n' position not defined found at POS: 4332 SEQID(8)
E 342	'n' position not defined found at POS: 4338 SEQID(8)
E 342	'n' position not defined found at POS: 4404 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 4406 SEQID(8)
E 342	'n' position not defined found at POS: 4497 SEQID(8) This error has occured more than 20 times, will not be displayed
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 5001 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 5141 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 5245 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 5287 SEQID(8)
E 254	The total number of bases conflicts with running total Input: 0, Calculated : 5324 SEQID(8) This error has occured more than 20 times, will not be displayed
E 253	The number of bases differs from <211> Input: 1046 Calculated:25454 SEQID (8)

```
<210>  1
<211>  24
<212>  PRT
<213>  Arabidopsis thaliana

<400>  1
Met Lys Ile Met Met Met Ile Lys Leu Cys Phe Phe Ser Met Ser Leu
1               5                   10                  15

Ile Cys Ile Ala Pro Ala Asp Ala
            20


<210>  2
<211>  24
<212>  PRT
<213>  Unknown
<220>

<223>  ER signal sequence

<400>  2
Met Ala Ala Ser His Gly Asn Ala Ile Phe Val Leu Leu Leu Cys Thr
1               5                   10                  15

Leu Phe Leu Pro Ser Leu Ala Cys
            20


<210>  3
<211>  24
<212>  PRT
<213>  Unknown
<220>
<223>  ER signal sequence

<400>  3
Met Ala Ala Arg Ile Gly Ile Phe Ser Val Phe Val Ala Val Leu Leu
1               5                   10                  15

Ser Ile Ser Ala Phe Ser Ser Ala
            20


<210>  4
<211>  12
<212>  PRT
<213>  Unknown
<220>
<223>  ER-plastid targeting sequence

<400>  4
Lys Lys Glu Thr Gly Asn Lys Lys Lys Lys Pro Asn
1               5                   10


<210>  5
```

<211>   12
<212>   PRT
<213>   Unknown
<220>
<223>   ER-plastid targeting sequence

<400>   5
Arg Phe Trp Gly Lys Lys Lys Arg Arg Ser Ser Pro
1   5   10

<210>   6
<211>   11
<212>   PRT
<213>   Unknown
<220>
<223>   ER-plastid targeting sequence

<400>   6
Thr Gly Lys Lys Lys Lys Lys Thr Tyr Leu Pro
1   5   10

<210>   7
<211>   284
<212>   PRT
<213>   Arabidopsis thaliana

<400>   7
Met Lys Ile Met Met Met Ile Lys Leu Cys Phe Phe Ser Met Ser Leu
1   5   10   15

Ile Cys Ile Ala Pro Ala Asp Ala Gln Thr Glu Gly Val Val Phe Gly
                20   25   30

Tyr Lys Gly Lys Asn Gly Pro Asn Gln Trp Gly His Leu Asn Pro His
        35   40   45

Phe Thr Thr Cys Ala Val Gly Lys Leu Gln Ser Pro Ile Asp Ile Gln
    50   55   60

Arg Arg Gln Ile Phe Tyr Asn His Lys Leu Asn Ser Ile His Arg Glu
65   70   75   80

Tyr Tyr Phe Thr Asn Ala Thr Leu Val Asn His Val Cys Asn Val Ala
                85   90   95

Met Phe Phe Gly Glu Gly Ala Gly Asp Val Ile Ile Glu Asn Lys Asn
                100   105   110

Tyr Thr Leu Leu Gln Met His Trp His Thr Pro Ser Glu His His Leu
        115   120   125

His Gly Val Gln Tyr Ala Ala Glu Leu His Met Val His Gln Ala Lys
        130   135   140

Asp Gly Ser Phe Ala Val Val Ala Ser Leu Phe Lys Ile Gly Thr Glu

Glu Pro Phe Leu Ser Gln Met Lys Glu Lys Leu Val Lys Leu Lys Glu
                165   170   175

Glu Arg Leu Lys Gly Asn His Thr Ala Gln Val Glu Val Gly Arg Ile
            180   185   190

Asp Thr Arg His Ile Glu Arg Lys Thr Arg Lys Tyr Tyr Arg Tyr Ile
          195   200   205

Gly Ser Leu Thr Thr Pro Pro Cys Ser Glu Asn Val Ser Trp Thr Ile
       210   215   220

Leu Gly Lys Val Arg Ser Met Ser Lys Glu Gln Val Glu Leu Leu Arg
225   230   235   240

Ser Pro Leu Asp Thr Ser Phe Lys Asn Asn Ser Arg Pro Cys Gln Pro
                245   250   255

Leu Asn Gly Arg Arg Val Glu Met Phe His Asp His Glu Arg Val Asp
            260   265   270

Lys Lys Glu Thr Gly Asn Lys Lys Lys Pro Asn
            275   280

<210> 8
<211> 1046
<212> DNA
<213> Arabidopsis thaliana

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agatgaagat tatgatgatg attaagctct gcttcttctc catgtccctc atctgcattg   120

cacctgcaga tgctcagaca gaaggagtag tgtttggata taaaggcaaa aatggaccaa   180

accaatgggg acacttaaac cctcacttca ccacatgcgc ggtcggtaaa ttgcaatctc   240

caattgatat
tcaaaggagg caaatatttt acaaccacaa attgaattca atacaccgtg   300

aatactactt cacaaacgca acactagtga accacgtctg taatgttgcc atgttcttcg   360

gggagggagc aggagatgtg ataatagaaa acaagaacta taccttactg caaatgcatt   420

ggcacactcc ttctgaacat cacctccatg gagtccaata tgcagctgag ctgcacatgg   480

tacaccaagc aaaagatgga agctttgctg tggtggcaag tctcttcaaa atcggcactg   540

aagagccttt cctctctcag atgaaggaga aattggtgaa gctaaaggaa gagagactca   600

aagggaacca cacagcacaa gtggaagtag gaagaatcga cacaagacac attgaacgta   660

agactcgaaa gtactacaga tacattggtt cactcactac tcctccttgc tccgagaacg   720

tttcttggac catccttggc aaggtgaggt caatgtcaaa ggaacaagta gaactactca   780

gatctccatt ggacacttct ttcaagaaca attcaagacc gtgtcaaccc ctcaacggcc   840

ggagagttga gatgttccac gaccacgagc gtgtcgataa aaaagaaacc ggtaacaaaa   900

agaaaaaacc caattaaaat agttttacat tgtctattgg tttgtttaga accctaatta   960

gctttgtaaa actaataatc tcttatgtag tactgtgttg ttgtttacga cttgatatac   1020

gatttccaaa aaaaaaaaaa aaaaaa   1046

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